

Construction Technology (E711065)

Course size (nominal values; actual values may depend on programme)

Credits	3.0	Study time	90 h	Contact hrs	24.0 h
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Course offerings and teaching methods in academic year 2018-2019

A (semester 1)	Dutch	lecture	24.0 h
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Lecturers in academic year 2018-2019

Wylaers, Marc	TW14	lecturer-in-charge
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Offered in the following programmes in 2018-2019

Master of Science in Civil Engineering Technology	crdts	offering
	3	A

Teaching languages

Dutch

Keywords

Construction technique, soil improvement, presses and drilling pipes, tunnels, renovations.

Position of the course

The anchoring of the technology for the implementation and the realisation of constructions or construction components of civil engineering.

This must be done in a responsible, safe and environmentally manner.

Contents

Part I: Ground Improvement Techniques

drainage, prior compaction, tax, sand cushions, geotextile, ramming stone pieces, seventh pile foundations, basements feces, soil injections, VHP-grouting.

Part II: Presses and drilling pipes

presses of wiring ducts, drilling pipe ducts and tunnels, remote-controlled drilling.

Part III: Bridges and tunnels

performance of different bridge types, for system expansion, tunnels in open pit, method of Stross, sunken tunnels.

Part IV: Renovation

injecting floors and walls, repairs to the surface, sewer renovation, bonded reinforcement

Part V: Safety

Introduction to security coordination

Initial competences

- A general technical training.
- A scientific training
- A basic knowledge of construction.

Final competences

- 1 The ground improvement techniques to implement.
- 2 The implementation techniques can implement the construction of pipelines.
- 3 The implementation methods to implement the construction of tunnels.
- 4 The renovation techniques can implement.
- 5 Master the basic knowledge of safety coordination.

Conditions for credit contract

Access to this course unit via a credit contract is determined after successful competences assessment

Conditions for exam contract

This course unit cannot be taken via an exam contract

Teaching methods

Lecture

Extra information on the teaching methods

Theory: Lecture

Learning materials and price

Course is available on Minerva.

- Printing course: 15 euros.

- The course will be made available electronically.

References

Course content-related study coaching

The student can ask questions during the lessons. It is always possible to ask questions by e-mail or by appointment.

Evaluation methods

end-of-term evaluation

Examination methods in case of periodic evaluation during the first examination period

Oral examination

Examination methods in case of periodic evaluation during the second examination period

Oral examination

Examination methods in case of permanent evaluation

Possibilities of retake in case of permanent evaluation

examination during the second examination period is not possible

Extra information on the examination methods

Oral examination

Calculation of the examination mark

100% of the theory